

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/593831  
Source: FWP  
Date Processed by STIC: 10/3/06

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 10/03/2006

PATENT APPLICATION: US/10/593,831

TIME: 08:46:42

Input Set : A:\PCTJP2005006006.txt

Output Set: N:\CRF4\10032006\J593831.raw

3 <110> APPLICANT: Daiichi Suntory Pharma Co., Ltd.  
 5 <120> TITLE OF INVENTION: Method for expansion of pluripotent stem cells  
 7 <130> FILE REFERENCE: DSTY-R678/PCT (fp05-02WO-1)  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/593,831  
 C--> 9 <141> CURRENT FILING DATE: 2006-09-22  
 9 <160> NUMBER OF SEQ ID NOS: 24  
 11 <170> SOFTWARE: PatentIn version 3.1  
 13 <210> SEQ ID NO: 1  
 14 <211> LENGTH: 882  
 15 <212> TYPE: PRT  
 16 <213> ORGANISM: Human E-cadherin  
 18 <220> FEATURE:  
 19 <221> NAME/KEY: DOMAIN  
 20 <222> LOCATION: (157)..(262)  
 21 <223> OTHER INFORMATION: EC1  
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 26 <222> LOCATION: (265)..(375)  
 27 <223> OTHER INFORMATION: EC2  
 30 <220> FEATURE:  
 31 <221> NAME/KEY: DOMAIN  
 32 <222> LOCATION: (378)..(486)  
 33 <223> OTHER INFORMATION: EC3  
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 38 <222> LOCATION: (487)..(595)  
 39 <223> OTHER INFORMATION: EC4  
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 44 <222> LOCATION: (596)..(700)  
 45 <223> OTHER INFORMATION: EC5  
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 51 1 5 10 15  
 54 Val Ser Ser Trp Leu Cys Gln Glu Pro Glu Pro Cys His Pro Gly Phe  
 55 20 25 30  
 58 Asp Ala Glu Ser Tyr Thr Phe Thr Val Pro Arg Arg His Leu Glu Arg  
 59 35 40 45  
 62 Gly Arg Val Leu Gly Arg Val Asn Phe Glu Asp Cys Thr Gly Arg Gln  
 63 50 55 60  
 66 Arg Thr Ala Tyr Phe Ser Leu Asp Thr Arg Phe Lys Val Gly Thr Asp  
 67 65 70 75 80  
 70 Gly Val Ile Thr Val Lys Arg Pro Leu Arg Phe His Asn Pro Gln Ile

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71                               85                               90                               95
74 His Phe Leu Val Tyr Ala Trp Asp Ser Thr Tyr Arg Lys Phe Ser Thr
75                               100                               105                               110
78 Lys Val Thr Leu Asn Thr Val Gly His His His Arg Pro Pro Pro His
79                               115                               120                               125
82 Gln Ala Ser Val Ser Gly Ile Gln Ala Glu Leu Leu Thr Phe Pro Asn
83                               130                               135                               140
86 Ser Ser Pro Gly Leu Arg Arg Gln Lys Arg Asp Trp Val Ile Pro Pro
87 145                               150                               155                               160
90 Ile Ser Cys Pro Glu Asn Glu Lys Gly Pro Phe Pro Lys Asn Leu Val
91                               165                               170                               175
94 Gln Ile Lys Ser Asn Lys Asp Lys Glu Gly Lys Val Phe Tyr Ser Ile
95                               180                               185                               190
98 Thr Gly Gln Gly Ala Asp Thr Pro Pro Val Gly Val Phe Ile Ile Glu
99                               195                               200                               205
102 Arg Glu Thr Gly Trp Leu Lys Val Thr Glu Pro Leu Asp Arg Glu Arg
103                               210                               215                               220
106 Ile Ala Thr Tyr Thr Leu Phe Ser His Ala Val Ser Ser Asn Gly Asn
107 225                               230                               235                               240
110 Ala Val Glu Asp Pro Met Glu Ile Leu Ile Thr Val Thr Asp Gln Asn
111                               245                               250                               255
114 Asp Asn Lys Pro Glu Phe Thr Gln Glu Val Phe Lys Gly Ser Val Met
115                               260                               265                               270
118 Glu Gly Ala Leu Pro Gly Thr Ser Val Met Glu Val Thr Ala Thr Asp
119                               275                               280                               285
122 Ala Asp Asp Asp Val Asn Thr Tyr Asn Ala Ala Ile Ala Tyr Thr Ile
123                               290                               295                               300
126 Leu Ser Gln Asp Pro Glu Leu Pro Asp Lys Asn Met Phe Thr Ile Asn
127 305                               310                               315                               320
130 Arg Asn Thr Gly Val Ile Ser Val Val Thr Thr Gly Leu Asp Arg Glu
131                               325                               330                               335
134 Ser Phe Pro Thr Tyr Thr Leu Val Val Gln Ala Ala Asp Leu Gln Gly
135                               340                               345                               350
138 Glu Gly Leu Ser Thr Thr Ala Thr Ala Val Ile Thr Val Thr Asp Thr
139                               355                               360                               365
142 Asn Asp Asn Pro Pro Ile Phe Asn Pro Thr Thr Tyr Lys Gly Gln Val
143                               370                               375                               380
146 Pro Glu Asn Glu Ala Asn Val Val Ile Thr Thr Leu Lys Val Thr Asp
147 385                               390                               395                               400
150 Ala Asp Ala Pro Asn Thr Pro Ala Trp Glu Ala Val Tyr Thr Ile Leu
151                               405                               410                               415
154 Asn Asp Asp Gly Gly Gln Phe Val Val Thr Thr Asn Pro Val Asn Asn
155                               420                               425                               430
158 Asp Gly Ile Leu Lys Thr Ala Lys Gly Leu Asp Phe Glu Ala Lys Gln
159                               435                               440                               445
162 Gln Tyr Ile Leu His Val Ala Val Thr Asn Val Val Pro Phe Glu Val
163                               450                               455                               460
166 Ser Leu Thr Thr Ser Thr Ala Thr Val Thr Val Asp Val Leu Asp Val
167 465                               470                               475                               480

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170 Asn Glu Ala Pro Ile Phe Val Pro Pro Glu Lys Arg Val Glu Val Ser
171          485          490          495
174 Glu Asp Phe Gly Val Gly Gln Glu Ile Thr Ser Tyr Thr Ala Gln Glu
175          500          505          510
178 Pro Asp Thr Phe Met Glu Gln Lys Ile Thr Tyr Arg Ile Trp Arg Asp
179          515          520          525
182 Thr Ala Asn Trp Leu Glu Ile Asn Pro Asp Thr Gly Ala Ile Ser Thr
183          530          535          540
186 Arg Ala Glu Leu Asp Arg Glu Asp Phe Glu His Val Lys Asn Ser Thr
187 545          550          555          560
190 Tyr Thr Ala Leu Ile Ile Ala Thr Asp Asn Gly Ser Pro Val Ala Thr
191          565          570          575
194 Gly Thr Gly Thr Leu Leu Leu Ile Leu Ser Asp Val Asn Asp Asn Ala
195          580          585          590
198 Pro Ile Pro Glu Pro Arg Thr Ile Phe Phe Cys Glu Arg Asn Pro Lys
199          595          600          605
202 Pro Gln Val Ile Asn Ile Ile Asp Ala Asp Leu Pro Pro Asn Thr Ser
203          610          615          620
206 Pro Phe Thr Ala Glu Leu Thr His Gly Ala Ser Ala Asn Trp Thr Ile
207 625          630          635          640
210 Gln Tyr Asn Asp Pro Thr Gln Glu Ser Ile Ile Leu Lys Pro Lys Met
211          645          650          655
214 Ala Leu Glu Val Gly Asp Tyr Lys Ile Asn Leu Lys Leu Met Asp Asn
215          660          665          670
218 Gln Asn Lys Asp Gln Val Thr Thr Leu Glu Val Ser Val Cys Asp Cys
219          675          680          685
222 Glu Gly Ala Ala Gly Val Cys Arg Lys Ala Gln Pro Val Glu Ala Gly
223          690          695          700
226 Leu Gln Ile Pro Ala Ile Leu Gly Ile Leu Gly Gly Ile Leu Ala Leu
227 705          710          715          720
230 Leu Ile Leu Ile Leu Leu Leu Leu Phe Leu Arg Arg Arg Ala Val
231          725          730          735
234 Val Lys Glu Pro Leu Leu Pro Pro Glu Asp Asp Thr Arg Asp Asn Val
235          740          745          750
238 Tyr Tyr Tyr Asp Glu Glu Gly Gly Gly Glu Glu Asp Gln Asp Phe Asp
239          755          760          765
242 Leu Ser Gln Leu His Arg Gly Leu Asp Ala Arg Pro Glu Val Thr Arg
243          770          775          780
246 Asn Asp Val Ala Pro Thr Leu Met Ser Val Pro Arg Tyr Leu Pro Arg
247 785          790          795          800
250 Pro Ala Asn Pro Asp Glu Ile Gly Asn Phe Ile Asp Glu Asn Leu Lys
251          805          810          815
254 Ala Ala Asp Thr Asp Pro Thr Ala Pro Pro Tyr Asp Ser Leu Leu Val
255          820          825          830
258 Phe Asp Tyr Glu Gly Ser Gly Ser Glu Ala Ala Ser Leu Ser Ser Leu
259          835          840          845
262 Asn Ser Ser Glu Ser Asp Lys Asp Gln Asp Tyr Asp Tyr Leu Asn Glu
263          850          855          860
266 Trp Gly Asn Arg Phe Lys Lys Leu Ala Asp Met Tyr Gly Gly Gly Glu

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267 865                870                875                880
270 Asp Asp
274 <210> SEQ ID NO: 2
275 <211> LENGTH: 884
276 <212> TYPE: PRT
277 <213> ORGANISM: Mouse E-cadherin
279 <220> FEATURE:
280 <221> NAME/KEY: DOMAIN
281 <222> LOCATION: (159)..(264)
282 <223> OTHER INFORMATION: EC1
285 <220> FEATURE:
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287 <222> LOCATION: (267)..(377)
288 <223> OTHER INFORMATION: EC2
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294 <223> OTHER INFORMATION: EC3
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299 <222> LOCATION: (489)..(597)
300 <223> OTHER INFORMATION: EC4
303 <220> FEATURE:
304 <221> NAME/KEY: DOMAIN
305 <222> LOCATION: (598)..(702)
306 <223> OTHER INFORMATION: EC5
309 <400> SEQUENCE: 2
311 Met Gly Ala Arg Cys Arg Ser Phe Ser Ala Leu Leu Leu Leu Leu Gln
312 1                5                10                15
315 Val Ser Ser Trp Leu Cys Gln Glu Leu Glu Pro Glu Ser Cys Ser Pro
316                20                25                30
319 Gly Phe Ser Ser Glu Val Tyr Thr Phe Pro Val Pro Glu Arg His Leu
320                35                40                45
323 Glu Arg Gly His Val Leu Gly Arg Val Arg Phe Glu Gly Cys Thr Gly
324                50                55                60
327 Arg Pro Arg Thr Ala Phe Phe Ser Glu Asp Ser Arg Phe Lys Val Ala
328 65                70                75                80
331 Thr Asp Gly Thr Ile Thr Val Lys Arg His Leu Lys Leu His Lys Leu
332                85                90                95
335 Glu Thr Ser Phe Leu Val Arg Ala Arg Asp Ser Ser His Arg Glu Leu
336                100               105               110
339 Ser Thr Lys Val Thr Leu Lys Ser Met Gly His His His His Arg His
340                115               120               125
343 His His Arg Asp Pro Ala Ser Glu Ser Asn Pro Glu Leu Leu Met Phe
344                130               135               140
347 Pro Ser Val Tyr Pro Gly Leu Arg Arg Gln Lys Arg Asp Trp Val Ile
348 145               150               155               160
351 Pro Pro Ile Ser Cys Pro Glu Asn Glu Lys Gly Glu Phe Pro Lys Asn
352                165                170                175

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355 Leu Val Gln Ile Lys Ser Asn Arg Asp Lys Glu Thr Lys Val Phe Tyr
356          180          185          190
359 Ser Ile Thr Gly Gln Gly Ala Asp Lys Pro Pro Val Gly Val Phe Ile
360          195          200          205
363 Ile Glu Arg Glu Thr Gly Trp Leu Lys Val Thr Gln Pro Leu Asp Arg
364          210          215          220
367 Glu Ala Ile Ala Lys Tyr Ile Leu Tyr Ser His Ala Val Ser Ser Asn
368 225          230          235          240
371 Gly Glu Ala Val Glu Asp Pro Met Glu Ile Val Ile Thr Val Thr Asp
372          245          250          255
375 Gln Asn Asp Asn Arg Pro Glu Phe Thr Gln Pro Val Phe Glu Gly Phe
376          260          265          270
379 Val Ala Glu Gly Ala Val Pro Gly Thr Ser Val Met Lys Val Ser Ala
380          275          280          285
383 Thr Asp Ala Asp Asp Asp Val Asn Thr Tyr Asn Ala Ala Ile Ala Tyr
384          290          295          300
387 Thr Ile Val Ser Gln Asp Pro Glu Leu Pro His Lys Asn Met Phe Thr
388 305          310          315          320
391 Val Asn Arg Asp Thr Gly Val Ile Ser Val Leu Thr Ser Gly Leu Asp
392          325          330          335
395 Arg Glu Ser Tyr Pro Thr Tyr Thr Leu Val Val Gln Ala Ala Asp Leu
396          340          345          350
399 Gln Gly Glu Gly Leu Ser Thr Thr Ala Lys Ala Val Ile Thr Val Lys
400          355          360          365
403 Asp Ile Asn Asp Asn Ala Pro Val Phe Asn Pro Ser Thr Tyr Gln Gly
404          370          375          380
407 Gln Val Pro Glu Asn Glu Val Asn Ala Arg Ile Ala Thr Leu Lys Val
408 385          390          395          400
411 Thr Asp Asp Asp Ala Pro Asn Thr Pro Ala Trp Lys Ala Val Tyr Thr
412          405          410          415
415 Val Val Asn Asp Pro Asp Gln Gln Phe Val Val Val Thr Asp Pro Thr
416          420          425          430
419 Thr Asn Asp Gly Ile Leu Lys Thr Ala Lys Gly Leu Asp Phe Glu Ala
420          435          440          445
423 Lys Gln Gln Tyr Ile Leu His Val Arg Val Glu Asn Glu Glu Pro Phe
424          450          455          460
427 Glu Gly Ser Leu Val Pro Ser Thr Ala Thr Val Thr Val Asp Val Val
428 465          470          475          480
431 Asp Val Asn Glu Ala Pro Ile Phe Met Pro Ala Glu Arg Arg Val Glu
432          485          490          495
435 Val Pro Glu Asp Phe Gly Val Gly Gln Glu Ile Thr Ser Tyr Thr Ala
436          500          505          510
439 Arg Glu Pro Asp Thr Phe Met Asp Gln Lys Ile Thr Tyr Arg Ile Trp
440          515          520          525
443 Arg Asp Thr Ala Asn Trp Leu Glu Ile Asn Pro Glu Thr Gly Ala Ile
444          530          535          540
447 Phe Thr Arg Ala Glu Met Asp Arg Glu Asp Ala Glu His Val Lys Asn
448 545          550          555          560
451 Ser Thr Tyr Val Ala Leu Ile Ile Ala Thr Asp Asp Gly Ser Pro Ile

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/593,831

DATE: 10/03/2006

TIME: 08:46:43

Input Set : A:\PCTJP2005006006.txt

Output Set: N:\CRF4\10032006\J593831.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date